

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

(1)

$$8 \overline{)76813}$$

(2)

$$4 \overline{)83848}$$

(3)

$$5 \overline{)80407}$$

(4)

$$5 \overline{)90896}$$

(5)

$$4 \overline{)96578}$$

(6)

$$6 \overline{)54982}$$

Steps: (1) Divide (2) Multiply (3) Subtract (4) Bring down the next number (5) Repeat if needed

Also see our Worksheets and Walkthroughs video: "Division - Traditional Long Division Algorithm Method Word Problems"

<p>(1)</p> $ \begin{array}{r} 9601 \text{ R5} \\ 8 \overline{) 76813} \\ \underline{- 72} \qquad (9 \times 8) \\ 48 \\ \underline{- 48} \qquad (6 \times 8) \\ 01 \\ \underline{- 0} \qquad (0 \times 8) \\ 13 \\ \underline{- 8} \qquad (1 \times 8) \\ \text{Remainder --> } 5 \end{array} $	<p>(2)</p> $ \begin{array}{r} 20962 \text{ R0} \\ 4 \overline{) 83848} \\ \underline{- 8} \qquad (2 \times 4) \\ 03 \\ \underline{- 0} \qquad (0 \times 4) \\ 38 \\ \underline{- 36} \qquad (9 \times 4) \\ 24 \\ \underline{- 24} \qquad (6 \times 4) \\ 08 \\ \underline{- 8} \qquad (2 \times 4) \\ \text{Remainder --> } 0 \end{array} $	<p>(3)</p> $ \begin{array}{r} 16081 \text{ R2} \\ 5 \overline{) 80407} \\ \underline{- 5} \qquad (1 \times 5) \\ 30 \\ \underline{- 30} \qquad (6 \times 5) \\ 04 \\ \underline{- 0} \qquad (0 \times 5) \\ 40 \\ \underline{- 40} \qquad (8 \times 5) \\ 07 \\ \underline{- 5} \qquad (1 \times 5) \\ \text{Remainder --> } 2 \end{array} $
<p>(4)</p> $ \begin{array}{r} 18179 \text{ R1} \\ 5 \overline{) 90896} \\ \underline{- 5} \qquad (1 \times 5) \\ 40 \\ \underline{- 40} \qquad (8 \times 5) \\ 08 \\ \underline{- 5} \qquad (1 \times 5) \\ 39 \\ \underline{- 35} \qquad (7 \times 5) \\ 46 \\ \underline{- 45} \qquad (9 \times 5) \\ \text{Remainder --> } 1 \end{array} $	<p>(5)</p> $ \begin{array}{r} 24144 \text{ R2} \\ 4 \overline{) 96578} \\ \underline{- 8} \qquad (2 \times 4) \\ 16 \\ \underline{- 16} \qquad (4 \times 4) \\ 05 \\ \underline{- 4} \qquad (1 \times 4) \\ 17 \\ \underline{- 16} \qquad (4 \times 4) \\ 18 \\ \underline{- 16} \qquad (4 \times 4) \\ \text{Remainder --> } 2 \end{array} $	<p>(6)</p> $ \begin{array}{r} 9163 \text{ R4} \\ 6 \overline{) 54982} \\ \underline{- 54} \qquad (9 \times 6) \\ 09 \\ \underline{- 6} \qquad (1 \times 6) \\ 38 \\ \underline{- 36} \qquad (6 \times 6) \\ 22 \\ \underline{- 18} \qquad (3 \times 6) \\ \text{Remainder --> } 4 \end{array} $